

60246-141

6. (PREVIOUSLY PRESENTED) The method as recited in claim 5 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said pair of ends to said flange includes thermally adhering said first end and said pair of ends to said flange.

7. (PREVIOUSLY PRESENTED) The method as recited in claim 5 wherein said flange is made of metal, and the step of attaching said first end and said pair of ends to said flange includes heating and flaring said first end and said pair of ends.

8. (PREVIOUSLY PRESENTED) The method as recited in claim 2 wherein the step of forming each of said plurality of cells includes expanding said at least one extruded tube with air in a mold to form a substantially w-shaped expanded tube and attaching a pair of ends of said expanded tube to a flange to form one of said cells, a flue gas passage being defined in said expanded tube.

9. (ORIGINAL) The method as recited in claim 2 wherein said at least one extruded tube is employed in a shell and tube heat exchanger.

60246-141

10. (PREVIOUSLY PRESENTED) A method for making a heat transfer component comprising the step of:

melting a norbornene polymer;

hot extruding said melted norbornene polymer to form a first extruded tube and a second extruded tube;

expanding said first extruded tube with air within a first mold having a plurality of first mold grooves on an inner surface of said first mold to form a first expanded tube having a plurality of first tube grooves and expanding said second extruded tube with air within a second mold having a plurality of second mold grooves on an inner surface of said second mold to form a substantially u-shaped second expanded tube having a plurality of second tube grooves; and

attaching an end of said first expanded tube and a pair of ends of said second expanded tube to a flange to form at least one cell, and said first expanded tube is located in an opening of said second expanded tube defined between said pair of ends, and a flue gas passage containing a flue gas is defined between said first expanded tube and said second expanded tube.

11. (PREVIOUSLY PRESENTED) The method as recited in claim 10 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said pair of ends to said flange includes thermally adhering said end and said pair of ends to said flange.

12. (PREVIOUSLY PRESENTED) The method as recited in claim 10 wherein said flange is made of metal, and the step of attaching said end and said pair of ends to said flange includes heating and flaring said end and said pair of ends.

13. (ORIGINAL) A heat transfer component comprising:

at least one cell including at least one expanded tube formed of a norbornene polymer;

a flue gas passage to contain a flue gas; and

an air flow passage located between each of said at least one cell to exchange heat with flue gas flowing through said flue gas passage.

60246-141

14. (ORIGINAL) The heat transfer component as recited in claim 13 wherein said at least one cell includes an outer expanded tube and an inner expanded tube and said flue gas passage is located between said expanded outer tube and said expanded inner tube to contain said flue gas.

15. (ORIGINAL) The heat transfer component as recited in claim 14 wherein said expanded outer tube is substantially U-shaped and includes an opening and said expanded inner tube is positioned within said opening.

16. (ORIGINAL) The heat transfer component as recited in claim 14 wherein said inner expanded tube and said outer expanded tube include a plurality of grooved surfaces.

17. (ORIGINAL) The heat transfer component as recited in claim 14 wherein a pair of outer ends of said outer expanded tube and an inner end of said inner expanded tube are attached to a flange.

18. (ORIGINAL) The heat transfer component as recited in claim 17 wherein said flange is made of said norbornene polymer, and said inner end and said pair of outer ends are thermally adhered to said flange.

19. (ORIGINAL) The heat transfer component as recited in claim 17 wherein said flange is made of metal, and said inner end and said pair of outer ends are heated and flared to attached said inner end and said outer ends to said flange.

20. (ORIGINAL) The heat transfer component as recited in claim 13 wherein said at least one cell includes an expanded tube which is substantially w-shaped and forms said flue gas passage.

21. (PREVIOUSLY PRESENTED) The method as recited in claim 3 wherein said first mold has a bottom portion and a top portion, the method further including the steps of positioning said first extruded tube in said bottom portion of said first mold and placing said top portion on said bottom portion to retain said first extruded tube therebetween.

60246-141

22. (PREVIOUSLY PRESENTED) The method as recited in claim 5 wherein said u-shaped second expanded tube is continuous between said pair of ends.

23. (PREVIOUSLY PRESENTED) The method as recited in claim 10 further including a second at least one cell, and an air flow passage is defined between said at least one cell and said second at least one cell.

24. (PREVIOUSLY PRESENTED) A method for making a heat transfer component comprising the steps of:

forming a plurality of cells of a norbornene polymer, each of said cells including a first expanded tube and a second u-shaped expanded tube having a pair of ends and an opening defined between said pair of ends, said second u-shaped expanded tube is continuous between said pair of ends, and said first tube is located in said opening; and

using said plurality of cells as part of said heat transfer component.

25. (PREVIOUSLY PRESENTED) The method as recited in claim 24 wherein a flue gas passage is defined between said first expanded tube and said u-shaped second expanded tube.

26. (PREVIOUSLY PRESENTED) The method as recited in claim 24 further comprising the step of attaching an end of said first expanded tube and said pair of ends of said u-shaped second expanded tube to a flange to form one of said plurality of cells.

27. (PREVIOUSLY PRESENTED) The method as recited in claim 26 wherein said flange is made of a norbornene polymer, and the step of attaching said end and said pair of ends to said flange includes thermally adhering said first end and said pair of ends to said flange.